

Interview Summary	Application No.	Applicant(s)	
	10/560,944	KRESS ET AL.	
	Examiner	Art Unit	
	Erica E. Cadugan	3722	

All participants (applicant, applicant's representative, PTO personnel):

(1) Erica E. Cadugan. (3) _____

(2) Mr. Stephen Olson. (4) _____

Date of Interview: 04 December 2006.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: _____

Claim(s) discussed: 1-13.

Identification of prior art discussed: U.S. Pat. No. 4,723,878 to Kelm et al.

Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Examiner proposed the attached Examiner's Amendment on 12/4/06. After various telephone calls between the Examiner and Mr. Olson between December 4, 2006 and February 1, 2007, it was determined that Mr. Olson did not receive a response from his client within any time frame set forth by the Examiner.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.



Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

ATTACHMENT TO INTERVIEW SUMMARY

*** TX REPORT ***

TRANSMISSION OK

TX/RX NO	2434	
CONNECTION TEL		2486410270
SUBADDRESS		
CONNECTION ID		
ST. TIME	12/04 12:09	
USAGE T	01'50	
PGS. SENT	6	
RESULT	OK	

ATTACHMENT TO INTERVIEW SUMMARY



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United States Patent and Trademark Office
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Alexandria, VA 22313-1450
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Fax Cover Sheet

Date: 04 Dec 2006

To: Mr. Stephen Olson	From: Erica E. Cadugan
Application/Control Number: 10/560,944	Art Unit: 3722
Fax No.: 248-641-0270	Phone No.: (571) 272-4474
Voice No.: 248-641-1600	Return Fax No.: (571) 273-8300 (official)
Re: dkt no. 2693-000017/US/NP	CC:
<input checked="" type="checkbox"/> Urgent <input checked="" type="checkbox"/> For Review <input type="checkbox"/> For Comment <input checked="" type="checkbox"/> For Reply <input type="checkbox"/> Per Your Request	

Comments:

Proposed Examiner's Amendment. Would it be possible to have a reply by Wednesday (12/6/06)?

Please let me know if there are any questions.

Thank you,

Erica Cadugan
Primary Examiner, U.S.P.T.O.
Art Unit 3722

Number of pages 6 including this page

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ATTACHMENT TO INTERVIEW SUMMARY

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Proposed EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with *** on ***.

The application has been amended as follows:

The first paragraph on page 1 of the specification has been amended as follows:

The invention relates to an interface between two parts of a tool system, in particular a metalworking tool[in accordance with the preamble of claim 1].

The paragraph spanning pages 2-3 has been amended as follows:

To achieve this object, an interface is proposed[which has the features named in claim 1]. The interface which comprises, for example, a holder and a replaceable head, has a clamping device with a pull stud and an eccentric cam coacting with it. Preferably the pull stud is located in the replaceable head and the eccentric cam in the holder, where the pull stud represents a continuation of an extension of the replaceable head. When the eccentric cam is actuated, the pull stud is shifted in an axial direction, that is, along the center axis of the interface so that the holder and the replaceable head can be clamped together. The eccentric cam is accessible through a peripheral surface of the parts of the tool system that are connected in the area of the interface. So it is no longer necessary to operate the clamping fixture from the front of one part or from the side of a part facing away from the front. It is possible to produce

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tools with a closed end face. It is additionally no longer necessary to remove a tool equipped with an interface of this type from a dedicated bracket on a machine tool or to dismantle it to operate the clamping fixture.

Claim 1 (Currently Amended). Interface between two parts of a tool system[, especially] of a metal-cutting tool, with a retainer comprising a recess, and an exchangeable tool head, comprising an appendix, which can be inserted into the recess, the exchangeable head is arranged in axial prolongation to the retainer, and with a fixture to fix the exchangeable head on the retainer, characterized in that the fixture comprises a tension-bolt and an in axial direction displacing eccentric cam element, wherein the eccentric cam element is operable over a peripheral area of the metal-cutting tool, and that the tension-bolt comprises a pull stud, which can be inserted into the eccentric cam element, comprising a first clamping surface, and that the eccentric cam element comprises a second clamping surface, wherein the distance between the second clamping surface to a rotary axis of the eccentric cam element [is different] varies, wherein the first clamping surface of the tension-bolt is formed convex and the second clamping surface of the eccentric cam element is formed concave, and wherein the eccentric cam element includes stops restricting an amount of rotational movement of the eccentric cam element therebetween.

NOTE: The “tool head”, “cam”, and “pull” stud additions were to provide antecedent basis for limitations in some of the dependent claims, such as, for example, claims 2, 4, 5, 7, and 8. Re the “is different” to --varies-- change, it is noted that as filed, it is unclear as claimed what the distance is different than, i.e., the distance between the second clamping surface to a rotary axis of the eccentric element is different than what?

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Claim 2 (Currently Amended). Interface in accordance with claim 1, wherein the pull stud includes a boss having [a] the first clamping surface, which boss can be introduced into the eccentric cam element.

Claim 3 (Currently Amended). Interface in accordance with claim 1, wherein the pull stud has a center axis running in the direction of [the] a center axis of the [metalworking] metal-cutting tool.

Claim 4 (Previously Presented). Interface in accordance with claim 1, wherein the first clamping surface includes an acute angle to the center axis of the pull stud.

Claim 5 (Currently Amended). Interface in accordance with claim 1, wherein the pull stud is connected to the [extension] appendix of the tool head or is formed in one piece with same.

Claim 6 (Previously Presented). Interface in accordance claim 1, wherein the pull stud has a stop ring.

Claim 7 (Currently Amended). Interface in accordance claim 1, wherein the second clamping surface of the eccentric cam element [has a second clamping surface the spacing of which to an axis of rotation of the eccentric cam varies] is located at least partially within the eccentric cam element.

NOTE: all limitations of claim 7 were already in claim 1 as filed with the pre-amdt.

Claim 8 (Currently Amended). Interface in accordance with claim 1, wherein the [boss] pull stud and the eccentric cam element each have an ejector surface.

NOTE: "the boss" lacked antecedent basis in this claim as no "boss" was introduced until claim 2.

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Claim 9 (Currently Amended). Interface in accordance claim 1, wherein the axis of rotation of the eccentric cam element is essentially perpendicular [on] to the center axis of the [metalworking] metal-cutting tool.

Claim 10 (Currently Amended). Interface in accordance claim 1, wherein the eccentric cam element has a hollow space accessible from [the] a radial side of the eccentric cam element with a surface which forms the second clamping surface and which second clamping surface includes an acute angle relative to the axis of rotation of the eccentric cam element.

Claim 11 (Currently Amended). Interface in accordance with claim 1, wherein [the] an ejector surface of the eccentric cam element is part of [the] an interior surface of the eccentric cam element bounding [the] a cavity in the eccentric cam element.

Claim 12 (Currently Amended). Interface in accordance with claim 1, wherein the [eccentric cam has] stops restricting [its] the rotational movement of the eccentric cam element are in the form of stop surfaces within the eccentric cam element.

Claim 13 (Currently Amended). Interface in accordance with claim 1, wherein the eccentric cam element has operating surfaces on at least one end face.

Examiner notes that U.S. Pat. No. 4,723,878 to Kelm et al., cited by applicant, anticipates most of the filed claims.

For example, note that Kelm teaches a machining tool 16 (col. 1, lines 10-36 and col. 2, lines 35-39, as well as Figure 1) to be clamped within a “retainer” 14. The “exchangeable tool head” 16 has an “appendix” in the form of a “tension-bolt” or “pull stud” 36 (see Figure 1) that is inserted into a recess within the “retainer” 14 (see Figure 1). The clamping of the

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exchangeable tool head 16 is achieved via the use of a rotary “eccentric cam element” 10 having a slot 24 having a clamping surface, the distance of which from the center rotational axis 20 of the eccentric cam element 10 varies (see Figure 2, for example). Note that the clamping surface (at 38) of the eccentric cam element 10 is concave, and engages a corresponding convex “first” clamping surface 46 of a “boss” of the pull stud (see Figures 1, 2, and col. 4, lines 40-59, for example, especially lines 57-59).

In operation, the pull stud of the exchangeable tool is inserted into slot 24 of the eccentric cam element 10, and an appropriate tool is inserted into the rotating means or “operating surfaces” (re claim 13) 60 to thereby rotate the eccentric cam element, thereby causing the aforescribed clamping surfaces of the eccentric cam element 10 and the pull stud to come into clamping contact (Figures 1, 2, col. 4, lines 37-59).

Re various dependent claims not already covered by the above description:

Re claim 4, see Figure 1, noting the angle alpha of the surface 45 relative to the generally horizontal axis of the pull stud 36.

Re claim 5, see Figure 1.

Re claim 6, see shoulder element 42, Figure 1.

Re the ejector surface of claim 8, see col. 4, line 60 through col. 5, line 2.

Re claim 9, see Figure 1.

Re claim 10, note that the second clamping surface at 38 is described as a tapered wall (see col. 2, lines 50-59), and, as shown in Figures 1-2, would extend at an “acute angle” within a hollow space of the cam element 10 relative to the rotation axis 20.

Re claim 11, see Figures 1-2 and col. 4, line 60 through col. 5, line 2.